

Notice of Allowability

Application No.

10/758,000

Examiner

Tran N. Nguyen

Applicant(s)

WISE, RICHARD J.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
 2. ☐ The allowed claim(s) is/are 1-29.
 3. ☒ The drawings filed on 1/16/04 are accepted by the Examiner.
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Tran N. Nguyen
Primary Examiner
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DETAILED OFFICE ACTION

Allowable Subject Matter

Claims 1-29 are allowed.

Reason for Allowability

The following is an examiner's statement of reasons for allowance: the primary reason for the allowance is the including, *in combination with other limitations recited in the claims*, the inventive features of the following:

A torque converter, or a system for generating electrical power, or a system for converting torque to power comprising:

a flywheel rotating about a first axis,

the flywheel including:

a first body portion;

a first plurality of permanent magnets mounted in the first body portion, each of the first plurality of permanent magnets extending along a corresponding radial axis direction with respect to the first axis; and

a second plurality of permanent magnets mounted in the first body portion; each of the second plurality of permanent magnets being located between a corresponding adjacent pair of the first plurality of permanent magnets; and

a generator disk rotatably about a second axis perpendicular to the first axis,

the generator disk including: a second body portion; and a third plurality of permanent magnets within the second body portion magnetically coupled to the first and second pluralities of permanent magnets.

Comparing to the prior-art of the record, the most relevant references are USP 2,243,555 to Faus and USP 6,084,322 to Rounds. Both refs disclose a magnetically torque converter having two rotary elements, one rotates around a rotary axis that is perpendicular to the other's

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rotary axis. However, none of the prior art references of the record, either stand alone or in combination, has taught or suggest the features of the flywheel including: a first body portion; a first plurality of permanent magnets mounted in the first body portion, each of the first plurality of permanent magnets extending along a corresponding radial axis direction with respect to the first axis; and a second plurality of permanent magnets mounted in the first body portion; each of the second plurality of permanent magnets being located between a corresponding adjacent pair of the first plurality of permanent magnets. The second magnet is known as suppressor magnets. Accordingly, interactions of the magnetic fields of the first magnets and the suppressor magnets disposed between corresponding adjacent pair of the first magnets. Thus, creating a magnetic field pattern (MFP), as shown in FIG. 3, of repeating arcuate shapes, i.e. sinusoidal curve, around circumferential edge portions of the flywheel.

Thus, none of the prior art stand-alone or in combination with other limitations recited in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

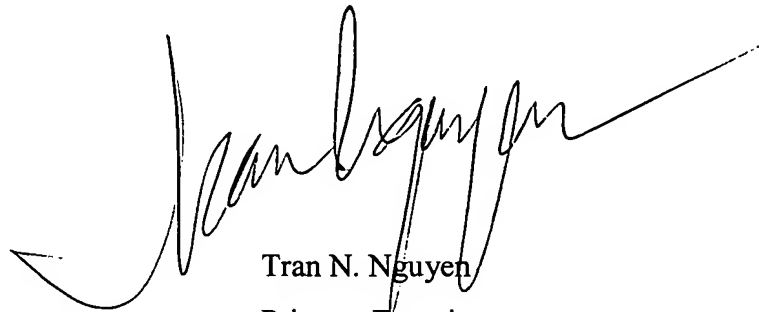
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2045. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Tran N. Nguyen', with a long horizontal stroke extending to the right.

Tran N. Nguyen
Primary Examiner
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